International application No.

## PCT/AU2004/001420

A	CLASSIFICATION OF SUBJECT MATTER
<i>-</i> 1	CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: A61M 16/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

DWPI IPC A		ventilat r	data base and, where practicable, search terms used) respirat breath [vocal cord] voice close shu ca analys determin measur)		
C.	DOCUMENTS CONSIDERED TO BE REL	EVANT			
Category* Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.	
x	GB 2294642 A (BRAIN) 8 May 19 Whole document	96		1-8, 11, 13, 15, 17, 19-24 26-28, 30, 34 36, 39, 41, 43	
A	US 4519399 A (HORI) 28 May 198 Whole document	35			
х	WO 2000/067827 A1 (RESPIRON) Pages 3-17	ICS INC)	) 16 November 2000	47,49-32,54-59,61-66, 92,94,96,97, 121,123,125, 126,150,152, 154,155	
* Special of documer not cons: "E" earlier ag internation or which another of documer or other in documer or other in documer. "P" documer.	categories of cited documents:  at defining the general state of the art which is idered to be of particular relevance  opplication or patent but published on or after the onal filing date  at which may throw doubts on priority claim(s) its cited to establish the publication date of citation or other special reason (as specified) at referring to an oral disclosure, use, exhibition means at published prior to the international filing date than the priority date claimed	"T" la cc ur" "X" do or al "Y" do in	ther document published after the international filing date of conflict with the application but cited to understand the print inderlying the invention occument of particular relevance; the claimed invention can reamnot be considered to involve an inventive step when the comment of particular relevance; the claimed invention can recurrent of particular relevance; the claimed invention can evolve an inventive step when the document is combined when the documents, such combination being obvious to a person occument member of the same patent family	r priority date and not in ciple or theory not be considered novel the document is taken not be considered to ith one or more other	
	al completion of the international search		Date of mailing of the international search report	1 2 JAN 2005	
AUSTRALIAN PO BOX 200, V 3-mail address:	ng address of the ISA/AU PATENT OFFICE WODEN ACT 2606, AUSTRALIA pct@ipaustralia.gov.au (02) 6285 3929		Authorized officer  Sue Thomas Telephone No: (02) 6283 2454		

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es -	Relevant to claim No.
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	47, 54, 61, 68 70, 76-78, 84 86
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	92-94,96,97 100,103,104 116,118, 121 123,125,126 129,131-133 145,147,150
	152,154,155 158,160-162 174,176
	92-94,96,100 103, 116, 121 123,125,126 129,145,150 152,154,155 158, 174
	92, 121, 150
	92, 93, 121, 122, 150, 15

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ategory*	on) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of decument, with indication, where appropriate, of the relevant passages	Relevant to			
alegory	gory* Citation of document, with indication, where appropriate, of the relevant passages				
х	WO 1999/045989 A1 (RESPIRONICS INC) 16 September 1999 Pages 16-46	92, 121, 150			
x	US 5794615 A (ESTES) 18 August 1998 Whole document				
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	<u>.</u>				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claims Nos.:	l				
because they relate to subject matter not required to be searched by this Authority, namely:					
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to suc an extent that no meaningful international search can be carried out, specifically:	h				
3. Claims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)					
	<u>"</u> -				
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:  Claims 1-46 relate to a method and apparatus for detecting reflex vocal cord closure  Claims 47-67 relate to a method and apparatus for assessing treatment by determining heart treatment index as a function of duration and pressure of gas delivery  Claims 68-91 relate to a method and apparatus for treating heart failure by generating a cardiac pressure waveform synchronized with the cardiac rhythm of the patient  Claims 92-178 relate to a method and apparatus for evaluating heart failure from the airflow of the patient					
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	;   				
Remark on Protest	j				
X No protest accompanied the payment of additional search fees.	1				

Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
GB	2294642	CA	2162013	US	5584290		
US	4519399	DE	3345067	FR	2537429	115	59107399
US	2002/169384	EP	1226841	DE	10103973		
US	5353788	NIL					
$\cdot$ WO	8909041	AU	15167/92	AU	35477/89	DK	235490
		EP	0407463	NO	904250	US	5020516
WO	0067827	AU	49772/00	CA	2369305	EP	1177006
WO	1997/030744	AU .	19709/97	US	5740797		•
US	5188098	AU	28832/92	wo	1993/008859		
WO	2002/026283	ΑU	93060/01	CA	2421774	EP	1328305
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wo	1999/061088	AU	31211/99	AU	37099/01	AU	40236/99
		EP	1083953	US	2003/154979	US	2004/237963
US	2003/121519	ΑU	30801/99	CA	2323455	EP	1061981
		US	5535738	US	5794615	US	6105575
		wo	9945989	wo	2004/047621		
EP	1295623	FR	2829917	US	2003/078619		
wo	1999/045989	AU	30801/99	CA	2323455	EP	1061981
		US	5535738	US	5794615	US	6105575
	•	wo	2004/047621				
US	5794615	AU	30801/99	CA	2323455	EP	1061981
		US	5535738	US	6105575	US	5794615
		US	2003/121519	wo	1999/45989	wo	2004/047621
wo	2000/045702	ΑU	22788/00	CA	2359575	EP	1152690

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX